

***What Is Claimed Is:***

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1. ~~A method for scheduling and simulating solution preparation, said solution for use in a biopharmaceutical production process, comprising the steps of:~~

(1) identifying at least one solution for preparation and its associated volume;

(2) identifying a predetermined start date for preparation of said at least one solution and at least one successive start date for preparation of said at least one solution;

(3) assigning said at least one solution to a to a preparation vessel; and

(4) determining the duration of the solution preparation procedure based on said step of assigning said at least one solution to a preparation vessel.

2. The method of claim 1, wherein step (1) comprises the step of calculating the total volume of said at least one solution needed for one process cycle.

3. The method of claim 1, wherein the step (2) comprises the step of calculating the latest start date for preparation of said at least one solution necessary for the preparation of said at least one solution to be prepared in time for use in the biopharmaceutical process.

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